Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

- 1. (Currently amended) A method to aid in predicting susceptibility of a mammalian subject to development or growth of a steroid hormone responsive cancer in a mucosal epithelial tissue, the method comprising:
- (a) quantitating and/or detecting at least one [[an]] immunoglobulin inhibitor chosen from the group consisting of dimeric/polymeric IgA, polymeric IgM and IgG1 of steroid hormone responsive eell growth in at least one specimen of body fluid or secretion obtained from said subject, wherein said inhibition of steroid hormone responsive cell growth is capable of being reversed by said steroid hormone;
- (b) determining whether said immunoglobulin inhibitor is absent or deficient in said at least one body fluid or secretion; and correlating said quantitated and/or detected at least one immunoglobulin inhibitor with an absence or deficiency of at least one immunoglobulin inhibitor chosen from the group consisting of dimeric/polymeric IgA, polymeric IgM and IgG1 in at least one body fluid or secretion that contacts or is secreted by a mucosal epithelial tissue of said subject, wherein said absence or deficiency of said immunoglobulin inhibitor indicates that there is insufficient inhibition of steroid hormone responsive cell growth in said tissue, and
- (c) using the determination from step (b), determining that said absence or deficiency of said immunoglobulin inhibitor indicates that a steroid hormone responsive mucosal epithelial tissue in said subject is contacted by insufficient immunoglobulin inhibitor to inhibit steroid hormone responsive cell growth in said tissue wherein said indication that there is insufficient inhibition of steroid hormone responsive cell growth in said tissue is predictive of increased susceptibility of said subject to development or growth of a steroid hormone responsive cancer in a mucosal epithelial tissue contacted by said at least one body fluid or secretion.
- 2. (Currently amended) The method of claim 1 wherein said further comprising obtaining a sample of at least one body fluid or secretion is chosen from the group consisting of colostrum, breast aspirates, saliva, tears, bronchial secretions, nasal mucosa, prostatic fluid, urine, semen or seminal

fluid, vaginal secretions, ovarian aspirates, stool, and mucous secretions from the small intestine or stomach.

- 3. (Currently amended) The method of claim 1 wherein said quantitating and/or detecting comprises measuring the amount and/or activity of said immunoglobulin inhibitor in [[a]] <u>said</u> specimen of body fluid or secretion from said subject.
- 4. (Previously presented) The method of claim 1 wherein said quantitating and/or detecting comprises depleting steroid hormone from said specimen of body fluid or secretion to yield a steroid hormone depleted specimen, and assaying said steroid hormone depleted specimen for steroid hormone reversible inhibition of steroid hormone responsive cancer cell proliferation.
- 5. (Currently amended) The method of claim 4 wherein said assaying comprises:

maintaining a population of steroid hormone-responsive cancer cells in a nutrient medium containing calcium ion and substantially no free ferric ion, or less than a cell growth inhibiting amount of free ferric ion, said cells also being steroid hormone responsive for *in vivo* proliferation if implanted in a suitable host;

adding steroid hormone to said medium sufficient to stimulate cell growth under cell growth promoting culture conditions;

adding a steroid hormone free specimen of a body fluid or secretion to said medium, to yield a test mixture;

incubating said test mixture under cell growth promoting conditions;

after said incubating, measuring the cell population in said test mixture;

measuring the cell population in a control incubation mixture like said test mixture, except lacking said specimen;

optionally, testing said specimen for cytotoxic effects on said cells;

measuring the differences in cell number between said cell populations before and after said incubation, a significant an increase in cell population doublings indicating the absence of inhibition of cell growth by said specimen in the presence of said steroid hormone, and a significant lack of increase in cell population doublings not attributable to cytotoxic effects of said specimen indicating inhibition of cell growth by said specimen in the presence of said steroid hormone, wherein cell growth in said test mixture and in said control mixture comprises more than one population doubling.

- 6. (Previously presented) The method of claim 1 wherein said inhibition of steroid hormone responsive cell growth is capable of being reversed by an amount of steroid hormone that is in the physiological concentration range for said steroid hormone in said mammal.
- 7. (Currently amended) An *in vitro* method of detecting loss of immunoglobulin regulation of steroid hormone responsive cell growth of a mucosal epithelial cell comprising:
 - (a) assaying for the presence of [[a]] poly-Ig receptor on said mucosal epithelial cell;
- (b) optionally, testing said poly-Ig receptor for ability to bind dimeric/polymeric IgA or polymeric IgM;
- (c) using assay results from step (a) and, optionally, test results from step (b), determining that an absence or deficiency of said receptor, or the inability of said poly-Ig receptor to bind said dimeric/polymeric IgA or polymeric IgM, indicates indicating loss of immunoglobulin regulation of growth of said cell, wherein immunoglobulin regulation comprises steroid hormone reversible inhibition of steroid hormone responsive mucosal epithelial cell growth by dimeric/polymeric IgA or polymeric IgM.
- 8. (Currently amended) A method of detecting a mediator of immunoglobulin inhibition of steroid hormone responsive cell growth wherein said inhibition can be reversed by said steroid hormone, the method comprising:
- (a) detecting a poly-Ig receptor in a mucosal epithelial cell a receptor capable of binding the Fc domain of dimeric/polymeric IgA or polymeric IgM;
- (b) optionally, testing said poly-Ig receptor cell for *in vitro* activity of said receptor for mediating said steroid hormone reversible immunoglobulin inhibition of steroid hormone responsive cell growth, said cell being capable of more than one doubling *in vitro*; and
- (c) using the detection from step (a) and, optionally, test results from step (b), determining that said wherein a detected poly-Ig receptor is capable of binding the Fc domain of dimeric/polymeric IgA or polymeric IgM is indicative that said receptor is a mediator of mediating immunoglobulin inhibition of steroid hormone responsive cell growth wherein said inhibition is capable of being reversed by said steroid hormone.

9 - 11. (Canceled)

- 12. (Currently amended) A method to aid in predicting susceptibility of a mammalian subject to development of breast cancer comprising:
- (a) detecting the loss or impairment of negative regulation of breast tissue proliferation by the secretory immune system in said subject, said detecting comprising testing for loss or reduction of immunoglobulin inhibition of steroid hormone responsive cell growth in said tissue by dimeric/polymeric IgA, polymeric IgM or IgG1; and
- (b) using the detection from step (a) to predict susceptibility of said subject to development of breast cancer wherein, a detected loss or impairment of said inhibition indicates indicating a greater risk of development of breast cancer in said subject.
- 13. (Currently amended) A method to aid in predicting increased susceptibility of a mammalian subject to development or growth of a steroid hormone responsive cancer in a mucosal epithelial tissue, the method comprising:
 - (a) assaying a specimen of mucosal epithelial tissue obtained from said subject for to detect the presence of a poly-Ig receptor capable of binding the Fc domains of dimeric/polymeric IgA or polymeric IgM;
 - (b) optionally, testing <u>said specimen</u> to determine whether said <u>detected poly Ig</u> receptor is capable of mediating immunoglobulin inhibition of steroid hormone responsive cell growth <u>in</u> <u>vitro</u>, wherein said inhibition is capable of being reversed by said steroid hormone, <u>and wherein said specimen comprises cells capable of proliferating to more than one population doubling in <u>vitro</u>[[;]]</u>
- (c) using assay results from step (a) and, optionally, test results from step (b), determining increased susceptibility of said subject to development or growth of a steroid hormone responsive cancer in said mucosal epithelial tissue, wherein, an absence of said receptor or an absence of activity of said receptor for mediating said immunoglobulin inhibition indicates being indicative that said tissue lacks sufficient functional mediators of immunoglobulin inhibition to deter development or growth of a steroid hormone responsive cancer in said mucosal epithelial tissue, and predicting increased susceptibility of said subject to development or growth of a steroid hormone responsive cancer in said mucosal epithelial tissue.

- 14. (Currently amended) A method to aid in detecting transformation of a mucosal epithelial cell from normally a steroid hormone responsive normal cell to a steroid hormone responsive cancerous condition, the method comprising:
- (a) assaying a population of said mucosal epithelial cells for loss of said <u>Fcy</u> receptor—or inactivity of said receptor for binding IgG1 or IgG2;
- (b) optionally, testing said cells for presence of a Fey receptor[[; and]] capable of binding the Fc domain of IgG1,
- (c) using assay results from step (a), and, optionally, test results from step (b) to determine that said mucosal epithelial cells have transformed from a normally steroid hormone responsive condition to a steroid hormone responsive cancerous condition, wherein, an absence of said Fcγ receptor or inactivity of said Fcγ absence of a receptor capable of for binding IgG1 or IgG2 is indicative of said transformation indicating that said mucosal epithelial cells have transformed from steroid hormone responsive normal mucosal epithelial cells to said steroid hormone responsive cancerous condition.
- 15. (Currently amended) A method to aid in detecting progression of a steroid hormone responsive malignant mucosal epithelial cell to an autonomous cancer cell, the method comprising:
 - (a) optionally, testing an autonomous a cancer cell for presence of [[a]] poly-Ig receptor;
- (b) assaying said autonomous cancer cell for ability to bind the Fc domain of dimeric/polymeric IgA or polymeric IgM[[;]]
- (c) using assay results from step (b), and, optionally, test results from step (a) to detect the absence of said poly Ig receptor and/or the absence of ability of said autonomous cancer cell to bind dimeric/polymeric IgA or polymeric IgM, wherein [[said,]] an absence of said poly-Ig receptor or loss of said ability to bind the Fc domain of dimeric/polymeric IgA or polymeric IgM indicates that said cancer cell has progressed progression of a from a steroid hormone responsive malignant mucosal epithelial cell to an autonomous cancer cell.

16. (Canceled)

17. (Currently amended) A method to aid in detecting or diagnosing cancer in a mammalian subject comprising determining, in a population of cells taken from a mucosal epithelial tissue

specimen obtained from said subject, wherein said population of cells is capable of more than one doubling *in vitro*, at least one of a first set of conditions selected from the following:

- (a) absence or diminution of immunoglobulin inhibition of steroid hormone responsive cell growth, wherein said inhibition is capable of being reversed by said steroid hormone;
- (b) absence or diminution of at least one immunoglobulin inhibitor of steroid hormone responsive cell growth from a body fluid or secretion secreted by or bathing said tissue, wherein inhibition by said inhibitor is capable of being reversed by said steroid hormone,
 - (c) absence or diminution of [[a]] poly-Ig receptor in said cells,
 - (d) absence of [[a]] poly-Ig receptor gene from said cells,
 - (e) absence of heterozygosity for allelic imbalance of said poly-Ig receptor gene in said cells,
 - (f) absence or diminution of [[a]] Fcy receptor in said cells,
 - (g) absence of [[a]] Fcy receptor gene from said cells,
- (h) absence of heterozygosity for allelic imbalance of said Fcγ receptor gene in said cells, and, optionally, detecting at least one of a second set of conditions selected from the following:
 - (i) absence or diminution of TGFβ regulation of cell growth,
 - (j) absence or diminution of [[a]] TGFβ receptor in said cells,
 - $\underline{(k)}$ absence of [[a]] TGF β receptor gene from said cells,
- using the results of said determinations and detections to aid in detecting or diagnosing cancer in a mammalian subject, said absence or diminution the presence of one or more of said first set of conditions indicating the presence of a cancerous or precancerous lesion in said subject patient, and an absence detection of one or more of said second set of conditions indicating the absence early onset of [[a]] said cancerous or precancerous lesion in said patient.

(1) absence of heterozygosity for allelic imbalance of said TGFB receptor gene in said cells,

18. (Currently amended) A method to aid in staging a cancer of a mucosal epithelial tissue comprising:

determining, in a specimen of neoplastic cells obtained from said cancer, whether said cells are stimulated by a steroid hormone to proliferate in an *in vitro* cell proliferation assay, wherein said cells are capable of more than one population doubling *in vitro*;

if it is determined that said cells are stimulated by said steroid hormone to proliferate, determining the amount of immunoglobulin inhibitor in a specimen of body fluid or secretion secreted by or bathing said mucosal epithelial tissue which is in a form that is active for inhibiting steroid hormone responsive cell proliferation, wherein said inhibition is capable of being reversed by said steroid hormone, and determining at least one of the following conditions:

loss or diminution of [[a]] TGFB receptor in said cells,

loss of [[a]] TGFβ receptor gene in said cells,

loss of heterozygosity for allelic imbalance of said TGFβ receptor gene in said cells,

loss or diminution of [[a]] poly-Ig receptor in said cells,

loss of [[a]] poly-Ig receptor gene in said cells,

loss of heterozygosity for allelic imbalance of said poly-Ig receptor gene in said cells,

loss or diminution of [[a]] Fcy receptor in said cells,

loss of [[a]] Fcy receptor gene in said cells,

loss of heterozygosity for allelic imbalance of said Fcy receptor gene in said cells; and

using said determinations to aid in staging said cancer of a mucosal epithelial tissue wherein the presence of one or more said condition loss or diminution indicates a more advanced cancer stage.

- 19. (Currently amended) A method to aid in prognosis of a mammalian cancer patient comprising:
- a) obtaining from said patient a specimen of body fluid[[,]] or a secretion secreted by or bathing a mucosal epithelial tissue, obtaining from said patient a specimen of neoplastic cells from a mucosal epithelial tissue;
- b) in said specimen of body fluid or secretion, determining [[the]] <u>a</u> lack of a <u>steroid hormone</u> <u>responsive</u> cell growth inhibitory amount of at least one immunoglobulin inhibitor <u>chosen from the</u> <u>group consisting of dimeric/polymeric IgA</u>, <u>polymeric IgM and IgG1 of steroid hormone responsive</u> <u>cell growth</u>, wherein inhibition by said <u>at least one immunoglobulin inhibitor</u> is capable of being reversed by said steroid hormone, and
- c) additionally determining at least one of the following conditions in a specimen of neoplastic cells obtained from a mucosal epithelial tissue of said patient:
- c-1) in said specimen of neoplastic cells from said tissue, the loss or diminution of [[a]] $TGF\beta$ receptor,
 - c-2) in said specimen of neoplastic cells from said tissue, the loss of [[a]] TGFB receptor gene,

- c-3) in said specimen of neoplastic cells from said tissue, the loss of heterozygosity for allelic imbalance of said TGFβ receptor gene,
- c-4) in said specimen of neoplastic cells from said tissue, the loss or diminution of [[a]] poly-Ig receptor,
- c-5) in said-specimen of neoplastic cells from said tissue, the loss of [[a]] poly-Ig receptor gene,
- c-6) in said specimen of neoplastic cells from said tissue, the loss of heterozygosity for allelic imbalance of said poly-Ig receptor gene,
- c-7) in said specimen of neoplastic cells from said tissue, the loss or diminution of [[a]] Fcy receptor,
 - c-8) in said specimen of neoplastic cells from said tissue, loss of [[a]] Fcy receptor gene,
- c-9) in said specimen of neoplastic cells from said tissue, loss of heterozygosity for allelic imbalance of said Fcy receptor gene; and
- d) using said determinations from b) and c) to aid in prognosis of said patient, wherein the lack of an inhibitory amount of said at least one immunoglobulin inhibitor presence of one or more of said conditions is indicative of at least some degree of reduced prognosis of said patient, and the presence of one or more of said conditions from step (c) is further indicative of at least some degree of reduced prognosis an absence of one or more of said conditions is indicative of at least some degree of favorable prognosis.
- 20. (Currently amended) A method to aid in treating cancer of a mucosal/epithelial tissue comprising
- a)—detecting in a population of cancer cells obtained from said tissue the presence of a highaffinity an estrogen binding activity having a greater E_2 binding affinity than that of $ER\alpha$ or $ER\beta$, and
- b) using the detection from a), determining that the presence of said high affinity estrogen binding activity indicates—indicating that said cancer cell is estrogen dependent for growth, and indicating an anti-estrogen based therapy for treating said cancer, or determining that the absence of said high—affinity estrogen binding activity—indicates indicating that said cancer cell is not estrogen dependent for growth, and contra-indicating an anti-estrogen based therapy for treating said cancer of a mucosal/epithelial tissue.

21-65. (Canceled)

- 66. (Currently amended) The method of claim 5 wherein said significant increase or significant lack of increase in said cell population doublings is determined using the student's t test and wherein a value of p < 0.05 -is indicates a significant difference.
- 67. (Currently amended) The method of claim 8 comprising testing said detecting poly-Ig receptor for activity for mediating steroid hormone reversible inhibition by dimeric/polymeric IgA or polymeric IgM of steroid hormone responsive cell growth.
- 68. (Currently amended) A method of detecting a mediator of immunoglobulin inhibition of steroid hormone responsive cell growth wherein said inhibition can be reversed by said steroid hormone, the method comprising:
- (a) detecting an Fey receptor in a mucosal epithelial cell an Fc receptor capable of binding the Fc domain of IgG1;
- (b) optionally, testing said Fey receptor for <u>cell</u> in vitro for activity of said receptor for mediating said steroid hormone reversible immunoglobulin inhibition of steroid hormone responsive cell growth, <u>said cell being capable of more than one doubling in vitro</u>[[; and]]
- (c) using the detection from step (a) and, optionally, test results from step (b), to determine that said, wherein a detected Feγ-receptor is capable of binding the Fc domain of IgG1 is indicative that said receptor is a mediator of mediating-immunoglobulin inhibition of steroid hormone responsive cell growth wherein said inhibition is capable of being reversed by said steroid hormone.
- 69. (Currently amended) A method of detecting expression—of—a defective mediator of immunoglobulin inhibition of steroid hormone responsive cell growth in cells from a specimen of mucosal epithelial tissue, the method comprising:

carrying out the method of claim 68 expressing in said cells the protein encoded by the variant Fey receptor gene detected according to the method of claim 80, to provide an expressed variant Fey receptor protein; and

testing said cell *in vitro* for activity of said receptor for mediating steroid hormone reversible inhibition by IgG1 of steroid hormone responsive cell growth, said cell being capable of more than one doubling *in vitro*, wherein a detected receptor capable of binding the Fc domain of IgG1 and lacking or having diminished activity for mediating the inhibition of steroid hormone responsive cell growth, indicates that said receptor is a defective mediator of immunoglobulin inhibition of steroid hormone responsive cell growth.

70. (Canceled)

- 71. (Currently amended) An *in vitro* method of detecting loss of immunoglobulin regulation of steroid hormone responsive cell growth of a mucosal epithelial cell, wherein said cell is capable of more than one doubling *in vitro*, the method comprising:
 - (a) assaying for the presence of [[an]] Fcy receptor on a mucosal epithelial cell;
 - (b) optionally, testing said Fcy receptor for ability to bind IgG1-or IgG2; and
- (c) using assay results from step (a) and, optionally, test results from step (b), determining that, an absence or deficiency of said receptor, or inability of said Fcγ receptor to bind IgG1, indicates indicating loss of immunoglobulin regulation of growth of said cell, wherein immunoglobulin regulation comprises steroid hormone reversible inhibition of steroid hormone responsive mucosal epithelial cell growth by IgG1-or IgG2.

72. (Canceled)

- 73. (Currently amended) The method of claim 1 further comprising detecting [[a]] poly-Ig receptor in said mucosal epithelial cell, wherein absence or deficiency of poly-Ig receptor further indicates increased susceptibility of said subject to development or growth of said cancer.
- 74. (Currently amended) The method of claim 1 further comprising detecting [[a]] Fcy receptor in said mucosal epithelial cell, wherein absence or deficiency of Fcy receptor further indicates increased susceptibility of said subject to development or growth of said cancer.

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75. (Currently amended) The method of claim 74 further comprising assessing the activity of said

Fey receptor for mediating inhibition by IgG1 or IgG2 of steroid hormone responsive cell growth in an

in vitro cell proliferation assay, wherein said inhibition is capable of being reversed by said steroid

hormone, and wherein an absence or deficiency of Fcy receptor activity for mediating inhibition by

IgG1 of steroid hormone responsive cell growth further indicates increased susceptibility of said

subject to development or growth of said cancer.

76. (Currently amended) The method of claim 1 comprising identifying an age range in said

mammalian subject of increased susceptibility to developing breast cancer after exposure to a

carcinogen, wherein the age of said subject, if within said identified age range, further indicates

increased susceptibility to development or growth of said cancer.

77. (Currently amended) The method of claim 20 wherein an indication that said cell is estrogen

dependent for growth further indicates a therapy comprising increasing the number of B immunocytes

in said mucosal/epithelial tissue producing IgA or IgM.

78. (Currently amended) The method of claim 20 wherein an indication that said cell is estrogen

dependent for growth further indicates a therapy comprising identifying administering an antagonist of

said high-affinity estrogen binding activity.

79. (Previously presented) The method of claim 78 wherein said antagonist comprises tamoxifen.

80. (Canceled)

81. (Previously presented) The method of claim 1 wherein said steroid hormone is an estrogen or

an androgen.

82. (Currently amended) A method to aid in predicting susceptibility of a mammalian subject to

development of breast cancer comprising:

(a) identifying an age range in said subject during which DNA synthesis in vulnerability to

breast <u>cancer</u> tissue is expected to be increased compared to that of another age range;

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- (b) analyzing determining the level of dimeric/polymeric IgA and/or polymeric IgM in blood
- and/or breast secretion breast tissue of mature adult females;
- (c) at an age within said age range of expected increased <u>DNA synthesis</u> <u>vulnerability</u>, analyzing determining the <u>level of dimeric/polymeric IgA</u> and/or <u>polymeric IgM</u> in <u>blood and/or breast</u> <u>secretion</u> in breast tissue of said subject;
- (d) optionally, increasing the amount of <u>dimeric/polymeric</u> IgA and/or <u>polymeric</u> IgM in the breast tissue of said subject;
- (e) comparing the <u>level of dimeric/polymeric IgA</u> and/or <u>polymeric IgM analysis</u> of said subject, from step (c) to the <u>level of dimeric/polymeric IgA</u> and/or <u>polymeric IgM analysis</u> of said mature adult females, from step (b), to <u>yield comparative results</u>; and
- (f) using the comparative results from step (e), predicting the susceptibility of said subject to development of breast cancer wherein a comparatively, wherein a lower level of dimeric/polymeric IgA and/or polymeric IgM in said blood or breast secretion the breast tissue of said subject indicates greater risk-susceptibility of said subject to development of breast cancer.
- 83. (Currently amended) The method of claim 82 wherein said comparatively-lower level of dimeric/polymeric IgA and/or polymeric IgM in <u>breast tissue of said subject said blood or breast secretion</u> indicates increased susceptibility of the breast tissue of said subject to mutagenesis-and/or carcinogenesis.
- 84. (Currently amended) The method of claim 82 wherein step (d) comprises comprising increasing the number of IgA- and/or IgM-producing immunocytes in the breast tissue of said subject during the age range identified in step (a).
- 85. (Currently amended) The method of claim 84 wherein increasing the number of said immunocytes in step (d) comprises orally immunizing said subject.
- 86. (Currently amended) The method of claim 17 wherein, in step (b), inhibition by said at least one immunoglobulin inhibitor is reversible by a physiologic concentration of said steroid hormone.

- 87. (Currently amended) The method of claim 20 wherein said greater E_2 binding affinity is $\underline{K_d} \le 1$ x 10^{-12} M.
- 88. (Previously presented) The method of claim 68 wherein said inhibition is reversible by a physiological concentration of said steroid hormone.
- 89. (Currently amended) The method of claim 1 wherein at least one specimen of body fluid or secretion obtained from said subject is comprising obtaining a serum or plasma sample from said subject.
- 90. (Withdrawn) A method of treating cancer of a mucosal epithelial tissue in an individual in need thereof comprising:
- a) detecting the presence or absence of high-affinity estrogen binding activity having greater E_2 binding affinity than that of $ER\alpha$ or $ER\beta$ in said tissue, according to the method of claim 20; and
 - b) contacting said tissue with an inhibitor of said high-affinity estrogen binding activity.
- 91. (New) The method of claim 8 wherein step (a) comprises detecting the presence of poly-Ig receptor.
- 92. (New) The method of claim 13 wherein step (a) comprises detecting the presence of poly-Ig receptor.
- 93. (New) The method of claim 20 further comprising: testing said cells for the presence of poly-Ig receptor; and

optionally, testing said cells for ability to bind the Fc domain of dimeric/polymeric IgA or polymeric IgM, wherein the presence of said receptor, and/or the ability of said poly-Ig receptor to bind the Fc domain of dimeric/polymeric IgA or polymeric IgM further indicates a therapy for treating said cancer of a mucosal/epithelial tissue by immunoglobulin regulation of growth of said cells.

- 94. (New) The method of claim 1 wherein the quantitating and/or detecting in step (a) comprises:
- (a') indirectly quantitating and/or detecting said at least one immunoglobulin inhibitor by quantitating and/or detecting J chain or secretory IgA, or the secretory component thereof, in said specimen, and correlating the quantitated and/or detected J chain or secretory IgA, or the secretory component thereof, with a quantity or presence of said at least one immunoglobulin inhibitor in said specimen, and wherein the correlating in step (b) comprises,
- (b') correlating the quantity or presence of said at least one immunoglobulin inhibitor with an absence or deficiency of at least one immunoglobulin inhibitor chosen from the group consisting of dimeric/polymeric IgA, polymeric IgM and IgG1 in at least one body fluid or secretion that contacts or is secreted by a mucosal epithelial tissue of said subject, wherein said absence or deficiency of said immunoglobulin inhibitor indicates that there is insufficient inhibition of steroid hormone responsive cell growth in said tissue.